CHAPTER-21(B)

WATER SUPPLY & SANITARY WORK

समस्त मनों में जी एस टी. एवं 1 प्रतिशत लेक्ष्र सेस को छोड़कर अन्य सभी कर जैसे उपकर लेकी की, टोल व रावेंस्ट

Sl No.	Schedule Item No.	Description of the Work	P.W.D. Sepecification No.	Unit	Over All effective Rates Meerut Baghpat
	2	3	4	5	6
21.01	-	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in			
		Charge. a) 15 mm dia, nominal outer dia Pipes		RM	145.00
		b) 20 mm dia: nominal outer dia Pipes		RM	165.00
		c) 25 mm dia nominal outer dia Pipes		RM	200.00
	-	d) 32 mm dia, nominal outer dia Pipes		RM	290.00
	-	e) 40 mm dia nominal outer dia Pipes		RM	380.00
21:02		Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes; having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at			
		1.00 m spacing. This includes jointing of pipes & fittings, with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer-in-Charge. Concealed work, including cutting chases and making good the wall etc.			**.
	а	The Additional Property of the Control of the Contr		RM	260.00
 	- b	b) 20 mm dia, nominal outer dia Pipes		RM	300,00
	c	The state of the s		RM	350.00
*	d	d) 32 mm dia, nominal outer dia Pipes		RM	440.00
21.03		Providing and fixing Chlorinated Rolyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings. This includes jointing of pipes &			
		fittings with one step CPVC solvent cement, trenching refilling & testing of joints complete as per direction of Engineerin-Charge. External work			
		a) 15 mm dia. nominal outer dia Pipes		RM	Acres
		b) 20 mm dia. nominal outer dia Pipes		RM	
		c) 25 mm dia, nominal outer dia Pipes		RM	
		d) 32 mm dia. nominal outer dia Pipes		RM	
		e) 40 mm dia. nominal outer dia Pipes		RM	345.00

ominal outer dia Pipes a. nominal outer dia Pipes ominal outer dia Pipes rominal outer dia Pipes rominal outer dia Pipes rominal outer dia Pipes fixing brass stop cock ISI marked lity as per direction of Engineer-in- nal bore nal bore fixing brass stop bib cock ISI marked lity as per direction of Engineer-in-		RM RM RM RM RM RM	525.00 1010.00 1240.00 1860.00 3820.00
nominal outer dia Pipes ominal outer dia Pipes cominal outer dia Pipes cominal outer dia Pipes cominal outer dia Pipes fixing brass stop cock ISI marked lity as per direction of Engineer-in- mal bore nal bore fixing brass stop bib cock ISI marked		RM RM RM RM	1240.00 1860.00
ominal outer dia Pipes cominal outer dia Pipes cominal outer dia Pipes cominal outer dia Pipes fixing brass stop cock ISI marked lity as per direction of Engineer-In- mal bore nal pore fixing brass stop bib cock ISI marked		RM RM RM	1860.00
nominal outer dia Pipes nominal outer dia Pipes fixing brass stop cock ISI marked lity as per direction of Engineer-in- nal bore nal bore fixing brass stop bib cock ISI marked		RM RM	
fixing brass slop cock ISI marked lity as per direction of Engineer-in- nal bore nal bore fixing brass slop bib cock ISI marked		RM	
fixing brass slop cock ISI marked lity as per direction of Engineer-in- nal bore nal pore fixing brass slop bib cock ISI marked			
lity as per direction of Engineer-in- nal bore nal bore fixing brass stop bib cock ISI market		No.	
nal bore fixing brass stop bib cock ISI market		No.	225
nal bore fixing brass stop bib cock ISI market			205,00
fixing brass stop bib cock ISI market		No.	37.0.00
*			
inal bore	-	No.	205.00
inal bore		No.	295.00
I fixing ball valve (brass)ISI marker lity complete., High & low pressure wit complite as per direction of Engineer-in	h)		
essure with plastic floats:		-	280.00
inal bore	and displace plants and a second	No.	
inal bore		No.	305.00
ninal bore		No.	490.00
fixing C.P. brass bib cock of approve ning to IS:8931	d	No.	525:00
olnal bore		110:	525.00
Ffixing C.P. brass long nose bib cock ality confirming to ISI standards are ess than 810 gms.	nd '		
inal hore		No.	595.00
fixing C.P. brass stop cock (concealed quality confirming to ISI standards	d) IS		
ninal bore.		No.	585.00
The C D brace andle valve for bas	sin ng		
minal bore		each	485.00
d placing on terrace (at air licor level water storage tank ISt: 127	for nd	per Ilr.	6.25
	minal bore d placing on terrace (at all floor leve water storage tank ISI: 127 ex or equivalent) with cover and suital agement and making necessary holes	d fixing C.P. brass angle valve for basing year points of approved quality confirming	minal bore. d fixing C.P. brass angle valve for basin yser points of approved quality confirming minal bore. d placing on terrace (at all floor levels) water storage tank ISI: 12701 ex or equivalent) with cover and suitable agement and making necessary holes for

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SI. No.	Schedule Item No.	Description of the Work	P.W.D. Sepecification No.	Unit	Qver All effective Rates Meer W Baghpa
21.12		Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm Sand Cast Iron P or \$ trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:			
		White glazed earthen ware(Indian Type)/Neycer W.C. Pan 580 mm Dia.		No.	2950.00
21.13		Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 30x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required:			And the state of t
,		One urinal basin with 5 litre white P.V.C. automatic y		No	4010.00
•		Range of four urinal basins with 10 litre white P.V.C.		No	11600.00
21.14		Providing and foing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS: 2556, C.L. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required:		·	Addingstration to control the control to the contro
		Single half stall urinal with 5 litre PVC, automatic flushing cistern		No	5950.00 35
		Range of two half stall urinals with 5 litre PVC. automatic flushing cistern		No	8450,00
		Range of three half stall unnals with 10 litre PVC. automatic flushing cistern		No	10300.00
		Range of four half stall unnais with 10 little 7 00.		No	14790:00
21.15		automatic flushing cistern Providing and fixing one piece construction white vitreous china squatting plate with an integral longitudinal flushing pipe, white P.V.C. automatic flushing cistern, flushing pipe, white P.V.C. automatic flushing cistern, with fittings, standard size G.I. / PVC flush pipe for back and front flush with standard spreader pipes with fittings, G.I clamps and C.P. brass coupling complete, fittings, G.I clamps and C.P. brass coupling complete, including painting of fittings and cutting and making good the walls and floors etc. wherever required:			
		Single squatting plate with 5 litre P.V.C. automatic		No	. 4975.00
		Range of two squatting plates with 5 litre P.V.C.		No.	7450.00
	***************************************	automatic flushing cistern Range of three squatting plates with 10 litre P.V.C. automatic flushing cistern Range of four squatting plates with 10 litre P.V.C.		No	8690.00 11470.00
		automatic flushing cistern (53)		13	

SI. No.	Schedule Item No.	Description of the Work	P.W.D. Sepecification No.	Unit	Oyer All effective Rates Meerul/ Baghpa
21.16		Providing and foung wash basin with C.I. brackets, 15 mm C.P. brass piller taps 32 mm C.P. brass waste of standard nation.			
•		standard pattern, including painting of fittings and brackets cutting and making good the walls wherever require:	-	2	
		White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C. P. brass pillar taps		No	3100.00
		White Vitreous China Wash basin size 630x450 mm with a single 15.mm C.P. brass pillar tap		No	2500.00
		White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps		No.	2950.00
		White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap		No	2375.00
		White Vitreous China Angle back wash basin of size 600x480 mm with single 15 mm C.P. brass pillar tap		No	2410.00
		White Vitreous China Angle back wash basin of size 400x400 mm with single 15 mm C.P. brass pillar tap		No	2290.00
		White Vitreous China Flat back wash basin size 450x300 mm with single 15 mm C.P. brass pillar tap		No	2380.00
21.17		Providing and Fixing while vitreous china pedestal for wash basin completely at the back for the reception of pipes and littings.	,	No	1010.00
21.18		Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls			
		wherever required: Kitchen sink with drain board	24		
		510x1040 mm bowl depth 250 mm		No	4450.00
-		510x1040 mm bowl depth 225 mm		No.	4220.00
		510x1040 mm bowl depth 200 mm		No	3930.00
		470x420 mm bowl depth 178 mm	1.	No	3850.00
21.19		Providing and fixing water vitreous china water closer squalling pan (Indian type)			A
		Long pattern W.C. pan of size 580 mm		No	1530.00
	-	Orissa pattern W.C. pan size 580x440 mm		No	1820.00
21.20		Providing and fixing water vitreous china pedestal type (Eurepean type) wash down type) water closer pan.		No	2110.00
21.21		Providing and fixing 8 mm dia C.P./ S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer-in-charge.		No	515.00
21.22		Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS 7231, with all fittings and fixtures complete.	-		
		10 litre capacity – white	,	No	1130.00
21.23	4	10 litre capacity – write Providing and fixing controlled flush, low level cistern made of vitreous china with all fittings complete.			
				No	2460.00
21.24		10 litre (full flush) capacity with Providing and fixing P.V.C. waste pipe for sink or wash basin Including PVCwaste fittings complete.			-
	 	Including F volvasio management	1+ 1		
		Semi rigid pipe 32 mm dia /40 mm dia	1	No	105.00
		150 arm houseled edge mirror of		No	975.00.
21.25		Providing and fixing 600x450 mm bevelor up the fixing 600x450 mm bevelor glass (of approved quality) complete with 6 mm superior glass (of approved quality) complete with 6 mm superior glass (of approved quality) complete with 6 mm superior glass (of approved quality) complete.		249-	414/40

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SI. No.	Schedule Item No.	Description of the Work	P.W.D. Sepecification No.	Unit	Oyer All effective Rates Meerut/Baghpat
		Providing and lixing soil, waiste and vent pipes:	-		
1.26		100 mm dia			
•		Sand cast iron S&S as per IS - 3989		Rnı	800.00
		Centrifugally cast (spun) Iron socket & spigot (S&S) pipe as per IS: 3989		Rm	825.00
		Hubless centrifugally cast (wpun) iron pipes epoxy coaled inside & outside IS 15905		Rm	800.00
21.27		75 mm dla meter			
21.21		Sand cast iron S&S as per IS - 1729		Rm	800.00
		Centrifugally cast (spun) iron socket & spigot (S&S) pipe as per IS: 3989		Rm'	650.00
		Hubless centrifugally cast (wpun) iron pipes epoxy coated inside & putside IS 15905		Rm	750.00
21.28		Cutting chases in brick masonry walls for following diameter sand cast iron/ centrifugally cast (spun) iron pipes and making good the same with cament concrete 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 12.5 mm nominal size), including necessary plaster and pointing in cement mortar 1:4 (1 cement: 4 coarse sand):	-		
		100 mm dia		Rm	320.00
•		75 mm dia		Rm	240.00
		50 min dia		Rm	145.00
		suitable for use as squatting pan or European type water closet (Anglo Indian W.C. pan) with seat & lid fixed with C.P. brass hinges and rubber buffers, 10 litre low level flushing cistern with fitting and brackets, 40 mm flush bend, 20 mm over flow pipe, with specials of standard make and mosquito proof coupling of approved municipal design complete; including painting of fittings and brackets, culting and making good the walls; and floors wherever required,			
		White vitreous china dual purpose W.C. pan with white solid plastic seat and lid with white vitreous china flushing cistern and C.P. flush bend ISI Mark Kajaria eqvilent Indian made Brand:		No	8500.00
21.30		Providing and fixing white vitreous china extended wall mounting water closet of size 780x370x690 mm of approved shape including providing & fixing white vitreous china cistern with dual flush fitting of flushing capacity 3 litre/6 litre (adjustable to 4 litre/8 litre), including seat cover and cistern fittings, nuts, bolts and gasket etc complete. ISI Mark Kajaria eqvilent Indian made Brand.		No	10800.00
21.31		Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300x300 mm size (inside) the weight of cover to be not less than 4.50kg and frame to be not less than 2.70 kg as per standard design.			
		100x100 mm size P type			2050 00
		with common burnt clay (non modular) bricks of class-150		No	2050.00
		150x100 mm size p type	-	No.	
	-	with common burnt clay (non modular) bricks of class-150	1	No	2150.00

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Schedu Item No	Description of the Work	P.W.D. Sepecification No.	Unit	Over All effective Rates Meerut/ Baghpa
	Supplying and fixing C.I. cover without frame for manholes:			
1	Supplying and fixing Cit.	3 10 0 20 2	No	1050.00
	455x610 mm rectangular C.I. cover (light duty) the weight of		Na	2610.00
1	the cover to be not less than 23kg		No	
1	TEXA COM MISSING CO. I. VY Y		No	4800.00
1	cover to be not less than 58 kg		1,254	
		1	;	*
	Providing and fixing in position pre-cast R.C.C. Industry cover and frame of required shape and approved quality			875.00
	Leaver and Home		No	875.00
1	and dimensions		No	679.94
	Square shape 450 mm internal diameter Circular shape 450 mm internal diameter	77 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1050.00
-	TO LAUDE SUDDENT TO	7 · · · · · · · ·	No No	875.00
	(AAC)		No	425.00
77	MD - 10 Square shape 450 mm internal dimension Square shape 450 mm internal diameter		NO	
	Square shape 450 mm internal diameter Circular shape 500 mm internal diameter		•	
			No.	220.00
4			1.3.	
	less than 4.3 by fixing toilet paper noices Fngineer-in-	t :		
5	Providing and fixing tollet paper holder standay or providing tollet paper holder sta	*	-	
	ISI marked C.P. Diase			
ı	charge	अधीक्षण अपि	34°	

अवर अभियन्ता (प्रा0) मेरठ वृत्त, लो.नि.वि., मेरड

अधीक्षण अभियन्ता भेरद वृत्त, लो.नि.वि., मेरद

CHAPTER -26 ANNUAL REPAIR

समस्त मदों में जी एस टी. एवं 1 प्रतिशत लेकर सेस को छोड़कर अन्य सभी कर जैसे उपकर लेकि की टोल व राथल्टी आदि व ठेकेंदार का लांबाश व ओवर हैड आदि दरों में सम्मिखित है।

No.	Description of work	PWD Spec. No.	Units	Rate Meerut Baghpat
	2	3.5	4	5
k	ainting letters upto 2.5 cm. size including supply of all materials, about & tools and plants etc. required for proper completion of the work.	19.17:1	Each	5.00
	As in ilem 817 above but size above 2.5 cm, but upto 8 cm.	19.17.2	Each	6.00
818	As in item no. \$17 above 8 cm, but upto 15 cm.	19.17.3	Each	7.00
000	Repairing letters upto 2:50 cm, size including supply of all meterials labour and look and plants etc, required for proper comiletion of the work	19.17:4	Each	4.00
		19.17.6	Each	4.00
821	As in item NO. 820 above but size above 2.5 cm. but upto 8 cm.	19.17.6	Each	6.00
822	As in item NO: 820 above but size above 8 cm, but upto 15 cm.	15,174	RM	7:00
836 (a)	Painting Border line upto 2.5 cm, wide	-	RM	8:50
(h)	Painting Border line upto 2.5 cm. to 5 cm, wide	-	RM	6.00
837 (a	Re-Painting Border line upto 2.5 cm. wide	-	- RM	6.00
	Desderling upto 2.5 cm to 5 cm wide.		Each	. 70.00
	Repainting and relettering number plates on ends of parapets of culverts and bridges and boader line in letters height from 2.5 cm, to 8 cm, with approved enamael paint of superior quality including supply of all materials, labour and T & P etc. required for proper completion of the work.	er 9	Each	160.00
83	2 Repainting and relettering of K.M. stones as per IRC design (excellent terms of the stones) as per IRC design (excellent terms of terms of the stones) as per IRC design (excellent terms of ter	pt iy or	Each	250.00
	proper compression	_	Each	60:00
8	33 As in item 832 above but 5th km, stone		Each	150.00
8 N.I.	33 As in item 832 above but 200 H.M. stone 1 Varnishing / Painting on chair / side rack with stand and such other items including all matrial labour T&P etc. compile for proprieters including all matrial labour T&P.	per ner	Laoita	
	completion of the work.		Each	550.00
N.I	Varnishing / Painting on Double door of the work. etc. complite for proper completion of the work. Varnishing / Painting on Singal bed/ Sofa/ Dining table including3 Varnishing / Painting on Singal bed/ Sofa/ Dining table including metrical labour T&P etc. complite for proper completion of the work.	all	Each	350.00
N.I	etc. complite for proper. -3 Varolshing /Painting on Singal bed/ Sofa/ Dining tayour matrial labour T&P etc. complite for proper completion of the work. -4 Cutting and repairing of walls or windows for fitting of window to the social labour to the social labo	ype	Each	425.00
N.	Cutting and repairing of waits to A.C. inculding wooden bidding after fixing.		<u> </u>	A

अवर अभियन्ता (प्रा0) मेरठ वृत्त, लो.नि.वि., मेरठ अधीवण अभिग्रन्ता भेरत वृत्तं, लो.नि.पि., भेरत

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CHAPTER -27

SIGNAGE ITEMS

समस्त मदों में जी एस.टी. एवं 1 प्रतिशत लेबर सेस को छोड़कर अन्य सभी कर जैसे उपकर, लेवी फी. टोल व रायॅल्टी आदि व ठेकेदार का लांगाश व ओवर हैड आदि दरों में सम्मिलित है।

SI.	Schedu le Item No.	Description of the work	P.W.D. Specific iation No. 4	Unit	Final 6
1	2 New Item	Retro-Reflectorised Traffic Signs Direction and place Identification signs up to 0.90 sqm Size Board Providing and erecting direction and place identification retro-reflectionised sign as per IRC-67 made of high intensity grade sheeting the retro-reflective sheeting type -IV shall be tested for 3 year outdoor weathering test in Indian conditions as per IRC 67-2012 & proof of the same in form of Government report shall be uploaded while quoting tender vide MOR&TH clause 801.3 fixed over aluminium sheeting 2mm thick with area exceeding 0.9 sqm supported on a miled steel single angle iron post 75x75x6 mm firmly fixed to the ground by means of property designed foundation with M-15 grade cement concrete 45x45x60 cm below ground level as per approved drawing complete, as per direction E-In- Charge Note: The Composite warranty jointly signed by original Note: The Composite warranty jointly signed by original manufacturer & authorized converter of at least 7 years shall be furnished on non Judicial stamp of required denomination both for retro reflective sheet and also complete signage.	801.00 MORTH	SQM	6300
2	New	Direction and place identification signsMore then 0.90 sqm Size Board Providing and erecting direction and place identification retro-reflectionised Providing and erecting direction and place identification retro-reflectionised sign as per IRC-67 made of high intensity grade sheeting the retro-reflective sheeting type -IV shall be tested for 3 year outdoor weathering reflective sheeting type -IV shall be tested for 3 year outdoor weathering it is in Indian conditions as per IRC 67-2012 & proof of the same in form of Government report shall be uploaded while quoting tender vide and MOR&TH clause 801.3 fixed over aluminium sheeting 2mm thick with area with MOR&TH clause 801.3 fixed over aluminium sheeting 2mm thick with area exceeding 0.9 sqm supported on a miled steel single angle iron post exceeding 0.9 sqm supported on a miled steel single angle iron post foundation with M-15 grade cement concrete 45x45x60 cm below ground foundation with M-15 grade cement concrete 45x45x60 cm below ground level as per approved drawing complete, as per direction E-In- Charge level as per approved drawing complete, as per direction E-In- Charge in the Composite warranty jointly signed by original Note: The Composite warranty jointly signed by original Note: The Composite warranty jointly signed by original formished on non-judicial stamp of required denomination both for retro-reflective sheet and also complete signage.	801 MORTH	sqm	6990.00





òl. Io.	Schedu le Item No.	Description of the work	P.W.D. Specific lation No.	Unjit 5	Final
_	2	3			***
		Retro Reflective Signs (Type-IV Sheet) for single side Providing and fixing retro-reflective signboards comprising of customised modular PU Epoxy Coated MS angle iron frame work, alyminum composite panel. (ACP) as base board, micro prismatic retro-reflective sheet and electro cut colored overlay film/latex printing. The horizontal and vertical members including inclined outer members of the MS frame module shall be made of pair MS angle iron. No panel size shall be more than one sqm and each panel shall be braced diagonally (one way only) with MS angle. The MS frame module shall have length not more than 3 mtr. The aluminum composite panel (ACP) shall have a thickness of 4mm with 0.5 mm thick skin of aluminum on both sides. The ACP shall be fixed on the MS frame with pop riveting or with self taping SS screws 5mm dla spaced not more than 300mm centre to centre ensuring that no riveting is seen on either face of the frame. On the front visible face of the ACP, micro prismatic retro-reflective sheet conforming to Type-IV of ASTM. D 4956:09 shall be pressure fixed. The retro-reflective sheeting shall be tested for 3 year outdoor weathering test in Indian conditions as per IRC 67 2012 & year outdoor weathering test in Indian conditions as per IRC 67 2012 & year outdoor weathering test in lodian conditions as per IRC 67 2012 & year outdoor weathering test in lodian conditions and incidentals all fabrication; transportation, erection, installation and incidentals all fabrication; transportation of the Engineer-in-Charge. Signage on MS angle frame of (35x35x5)mm	801 MORTH	SOM	4949.00
4		Retro Reflective Signs (Type-IV Sheet) for both side Providing and fixing retro-reflective signboards comprising of customises modular PU Epoxy Coated MS angle iron frame work, aluminum composite modular PU Epoxy Coated MS angle iron frame work, aluminum composite panel (ACP) as base board, micro prismatic retro-reflective sheet and electro cut colored overlay film/latex printing. The horizontal and vertical members including inclined outer members of the MS frame module shall be made of pair MS angle fron. No panel size shall be more than one squared each panel shall be braced diagonally (one way only) with MS angle and each panel shall be braced diagonally (one way only) with MS angle and each panel shall be braced diagonally (one way only) with MS angle and each panel shall be braced diagonally (one way only) with MS angle and each panel shall be braced diagonally (one way only) with MS angle and each panel shall be braced diagonally (one way only) with MS angle and each panel shall be fixed on the frame with pop riveting or with self taping SS screws 5mm dia space not more than 300mm centre to centre ensuring that no riveting is seen on the more than 300mm centre to centre ensuring that no riveting is seen on the frame. On the front visible face of the ACP, micro either face of the frame. On the front visible face of the ACP, micro either face of the frame. On the front visible face of the ACP, micro either face of the frame. On the front visible face of the ACP, micro either face of the frame. On the front visible face of the ACP, micro either face of the frame of the frame of government report shall be uploaded with quoting tender. The rate include all materials, labour, equipment fabrication, transportation, erection, installation and incidentals, complete as per direction of the Engineer-in-Charge. Signage on MS angle frame of (35x35x5)mm	801 MORTH	SOM	6645.00





	Schedu le Item No	Description of the work	P.W.D. Specific lation No.	Orne	Final 6
+	2	Retro Reflective Signs (Type-IV Sheet) for both side	4	5	6
		providing and fixing retro-reflective signboards comprising of customised modular PU Epoxy Coated MS angle iron frame work, aluminum composite panel (ACR) as base board micro prismatic retro-reflective sheet and electro cut colored overlay film/latex printing. The horizontal and vertical members including inclined outer members of the MS frame module shall be made of pair MS angle iron. No panel size shall be more than one som and each panel shall be braced diagonally (one way only) with MS angle. The MS frame module shall have length not more than 3 mtr. The aluminum composite panel (ACP) shall have a thickness of 4mm with 0.5 mm thick skin of aluminum on both sides. The ACR shall be fixed on the			
	e.	MS frame with pop riveting or with self taping SS screws 5mm dia spaced not more than 300mm centre to centre ensuring that no riveting is seen on either face of the frame. On the front visible face of the ACP, micro prismatic retro-reflective sheet conforming to Type-IV of ASTM: D 4956-09 shall be pressure fixed. The retro-reflective sheeting shall be tested for 3 year outdoor weathering test in Indian conditions as per IRC 67: 2012 &	801 MORTH	SOM	6633.00
		proof of the same in form of government report shall be uploaded with quoting tender. The rate include all materials, labour, equipments, fabrication, transportation, erection, installation, and incidentals all complete as per direction of the Engineer-In-Charge. Signage on MS angle frame of (35x35x5)mm		7	4-
5		Retro-reflectorised Traffic sign as per IRC 67-2012 Providing and fixing of retro-reflectorised cautionary, mandatory and informatory sign as per IRC 67-2012 made of high intensity grade sheeting vide clause 801.3, fried over aluminum sheeting type-IV 1.5 mm thick supported on a mild steel angle iron post 75mm x.75 mm x6 mm firmly fixed to the ground by means of properly designed foundation with M.15 grade gement concrete 45 cm x 45 cm x 60 cm below ground level as per approved drawing. The retro-reflective sheeting shall be tested for 3 year outdoor weathering test in Indian conditions as per IRC 67: 2012 & proof of the same in form of government report shall be uploaded with quoting tender.			
		a) 90 cm equilateral triangle with diffinitation plate size (20 cm x 60 cm) b) 60 cm equilateral triangle with diffinitation plate size (20 cm x 60 cm) c) 60 cm Circular with diffinitation plate (20 cm x 60 cm) d) 80 mm x 60 mm rectangular with diffinitation plate (20 cm x 50 cm) e) 60 mm x 60 mm rectangular with diffinitation plate (20 cm x 50 cm) f) 60 cm x 60 cm square with diffinitation plate (20 cm x 60 cm) g) 90 cm high octagon h) 50 x 60 cm single chevron		20 20 20 20 20 20 20 20 20 20 20 20 20 2	4065.00 3540.00 3815.00 4550.00 3765.00 4100.00 4820.00 3430.00 5670.00
7	New Item	Reflectorising Glass Beads on Bituminous Surface Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC 35-2015	803 MORTH	No. No. No. Sam	3315 00 3820 00 4630 00 615 00
		The finished surface to be level, uniform and the Rales are inclusive of all taxes, royally, etc. all T&P/machine material and labour required for proper completion of work.			FA ^{AA} S

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ŞI. No.	Schedu le Item No.	Description of the work	P.W.D. Specific lation No.	Unit	Final
1	2	The state of the s	A	5	6
8	New	Supply, fixing and hoisting of 6.00-7.00 m. span Cantilever Structure in position with one vertical post of 6.00 M. clear height from the top of R.C.C. foundation made of 300 mm, dia pipe welded with 10 mm thick MS plate stiffners & two nos. 8 mm thick MS plates at top welded with structure of 40 mm NB (M) pipe comprising of horizontal, vertical & bracing pipe of 32 mm NB (M) as per structural design requirements & approved drawing with vertical & lateral clearance given in clause 802.2 & 802.3 including one coat of primer and two coats of synthetic enamel paint on the whole structure & installed as		Each	125000.00
		per clause 802:7 over a designed support system made up of concrete including excavation, lean concrete 1:4:8 cement, coarse sand and approved 20 mm grit and R.C.C. 1:2:4 with cement, coarse sand and approved 20 mm grit complete for fixing the complete structure in position as per direction of E/I charge. With 7 years warranty. Rates include design, fabrication, supply, transportation and erection of the signage structure inclusive of all taxes.		•	
		royalty, etc. all T&P/machine malerial and labour required for proper- completion of the work: Note: The Composite warranty jointly signed by original manufacturer & authorized converter of at least 7 years shall be furnished on non judicial stamp of required denomination for complete structure.		· · · · · · · · · · · · · · · · · · ·	5.7
9	New Item	complete structure. Supply, fixing and hoisting of 12:00 - 15:00 M span Overhead Structure in position with two vertical posts of 6:00 M, clear height from the top of R.C.C. foundation made of 300 mm, dia pipe welded with 10 mm thick MS plate at bottom supported with 10 mm thick MS plate stiffeners & two nos:10 mm thick MS plates at top welded with structure of 50 mm NB (M) and bracing pipe comprising of horizontal, vertical pipe of 40 mm NB (M) and bracing pipe of 32 mm NB (M) as per structural design requirements and approved drawing with vertical and lateral clearance given in clause 802:2 and 802.3 including one coat of primer and two coat of synthetic enamel paint on the whole structure and installed as per clause 802:7 over a designed support system made up of concrete including excavation, lean concrete with 14:8 rement; coarse sand and approved 20 mm grit and R.C.C. 12:4 with sement; coarse sand and approved 20 mm grit complete for fixing the complete structure in position as per direction of E/I, charge. With 7 years complete structure in position as per direction of E/I, charge. With 7 years warranty. Rates include design, fabrication, supply, transportation and traction of the sign board and also inclusive of all taxes, pyalty, eld work. In the Composite warranty jointly signed by original pour left in the complete structure.	nego.	Each	233000.00

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			- (W. 10. 10)		
	Schedu le Item No.	Description of the work	P.W.D. Specific lation No.	Unit	Final
+		the second of th	4	5	6
0	New Item	Reflective Raised Pavement Marker Providing and fixing of raised pavement markers (Cat Eye) Type x-ASTMD-4956-04 Avery Dennision/3m(USA Make) having moulded body of polycarbonate, ASA, HIRS or ABS able to support a load of 13:635 M.T. tested in accordance with ASTMD 4280 type H and other requirement mentioned in MoRT&H Circular, its reflective lens made of micro prismatic lens (capable of providing total internal reflection of light), electronically welded to the body. The length, height and width of the body shall not exceed 130 mm, 20 mm and 105 mm respectively. The area of each reflective surface shall not be less than 13 Sq. cm. on each side sloping at the angle of 35 ± 5 degree to the base to ensure maximum reflectively. It shall comply to specification of Category A of MoRT&H circular no. RW/NH 33023/10/97-DQ-III dated 1.1.06:97 lenses shall be included of methyl methecrylate conforming to ASTMD 788 or equivalent. With 7 years warranty, Rate shall be inclusive of all taxes, royalty, etc. All T&P/ machine material and labour required for proper completion of work.		5 Each	195.00
		Note: The Composite warranty jointly signed by original manufacturer & authorized converter of at least 7 years shall be			
11	New	furnished on non judicial stamp of required denomination. Reflective Raised Payement Marker with shanks Providing and fixing of raised payement markers with twin shanks of adequate length anchored with epoxy / bitumen adhesive of approved make(Cat Eye) Type x-ASTMD-4956-04 Avery Dennision/3m(USA Make) having moulded body of polycarbonate; ASA, HIPS or ABS able to support a load of 13,635 M.T. tested in accordance with ASTMD 4280 type H and other requirement mentioned in MoRT&H Circular, its reflective lens made of micro prismatic lens (capable of providing total internal reflection of light), electronically welded to the body. The length, height and width of the body shall no exceed 130 mm, 20 mm and 105 mm respectively. The area of each reflective surface shall not be less than 13 Sq. cm. on each side sloping a the angle of 35 + 5 degree to the base to ensure maximum reflectively is shall comply to specification of Category A of MoRT&H circular no. RW/NH 33023/10/97-DO-III dated 11:06.97 lenses shall be moulded of methy methecrylate conforming to ASTMD 788 or equivalent. With 7 year warranty. Rate shall be inclusive of all taxes, royally, etc. etc. All T&F machine material and labour required for proper completion of work. Note: The Composite warranty jointly signed by original manufacturer & authorized converter of at least 7 years shall be manufacturer.	t t t t t t t t t t t t t t t t t t t	3 d d d d d d d d d d d d d d d d d d d	324.00
12	New Item	Supplying & fixing of Linear Delineator System (LUS)panels made of Microrismatic Retro Reflective sheeting Type XI duly laminated on this aluminium foil to a unique corrugated shape to provide retro reflection across wide range of observations and external angles. Each LDS panels should be of nominal length of 33 inch and each ridge shall be approximately 0.34 inch high. Each LDS panel is to be firmly fixed consisting Concrite / brick work with 16 Nos Fastner/ screw as per IRC 7 2019 -Rates are inclusive of all taxes, royalty, etc. all T&P/machin material and labour required for proper completion of work. Note: The Composite warranty jointly signed by origin manufacturer & authorized converter of at least 7 years shall the furnished on non judicial stamp of required denomination.	n al	'Nos	855.00
1	3 New Item	Providing & fixing of Bolizio Inface (only) Providing & fixing only shaped to make it monolithic pillar size 1200m	on he irs nd	inos	5420.00

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SI. No:	Schedu le Item No.	Description of the work	P.W.D. Specific iation No.	Unit	Final
1	2	3		Nos'	9480.00
<u>ति</u> 4	New Item	Supply & fixing of Bollard (Double side) Made out of aluminium sheet 4mm thick welded poly shaped to make it monolithic pillar size 1200mm high Bollard is having a frame 900x600mm and 600mm dia for fixation made out of 35x35x5mm angle iron and from side is fully coverd fixing the complete structure in position as per direction of E/I, charge: With 7 years warranty. Rates include design, fabrication, supply, transportation and erection of the sign board and also inclusive of all taxes, oyalty, etc all T&P/machine material and labour required for proper completion of work.	3		
15		Metal Beam Crash Barrier			1
	1 .	1.8 Santa it 10 ft - an Oceah Darriot	7.00	RM	3107:00
		Providing and erecting a 'W' metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 70 cm above road/ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2 m centre to centre, 1.8 m high, 1.1 m below ground/road level, all steel parts and fitments to be galvanised by hot dip process, all fittings to conform to IS:1367 and IS:1364, metal beam rail to be fixed on the vertical post with a spacer of channel section 150 x 75 x 5 mm, 330 mm long complete as per clause 810 of MORATH			
16	-	Metal Beam Crash Barrier			Want of the State of the
17		Type - B. THRIE': Metal Beam Crash Barrier Providing and erecting a 'THRIE' metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 85 cm above road/ground level, fixed on ISMC series channel vertical post, 150 x 75 x 5 mm spaced 2 m centre, to centre, 2.0 m high, 1.5 m below ground/road level, all steel parts and filments to be galvanised by hot dip process, all fittings to conform to ISt1367 and ISt1364, metal beam rail to be fixed on the vertical post with a spacer of channel section:150 x 75 x 5 mm, 330 mm long complete as per clause at 10 of MOR&TH: TREE PLATE: SIF Reflective tree plate having Size 15 Cm x15Cm, Consisting type XL sheeting over 1.5mm thick aluminium sheet including labour. Material T&P etc for proper completion of the		RM No	4214.00 100.00
		1.5mm thick aluminium sneet including lactors maken work.	7 *	1. 35-1	12 / 42
		TROTA.	pro	- 2	

अवर अभियन्तर (भार) भरट कृत, लो.नि.वि., भेरट अधीकण अभियन्ता मेरठ वृत्तः सो नि वि अरठ